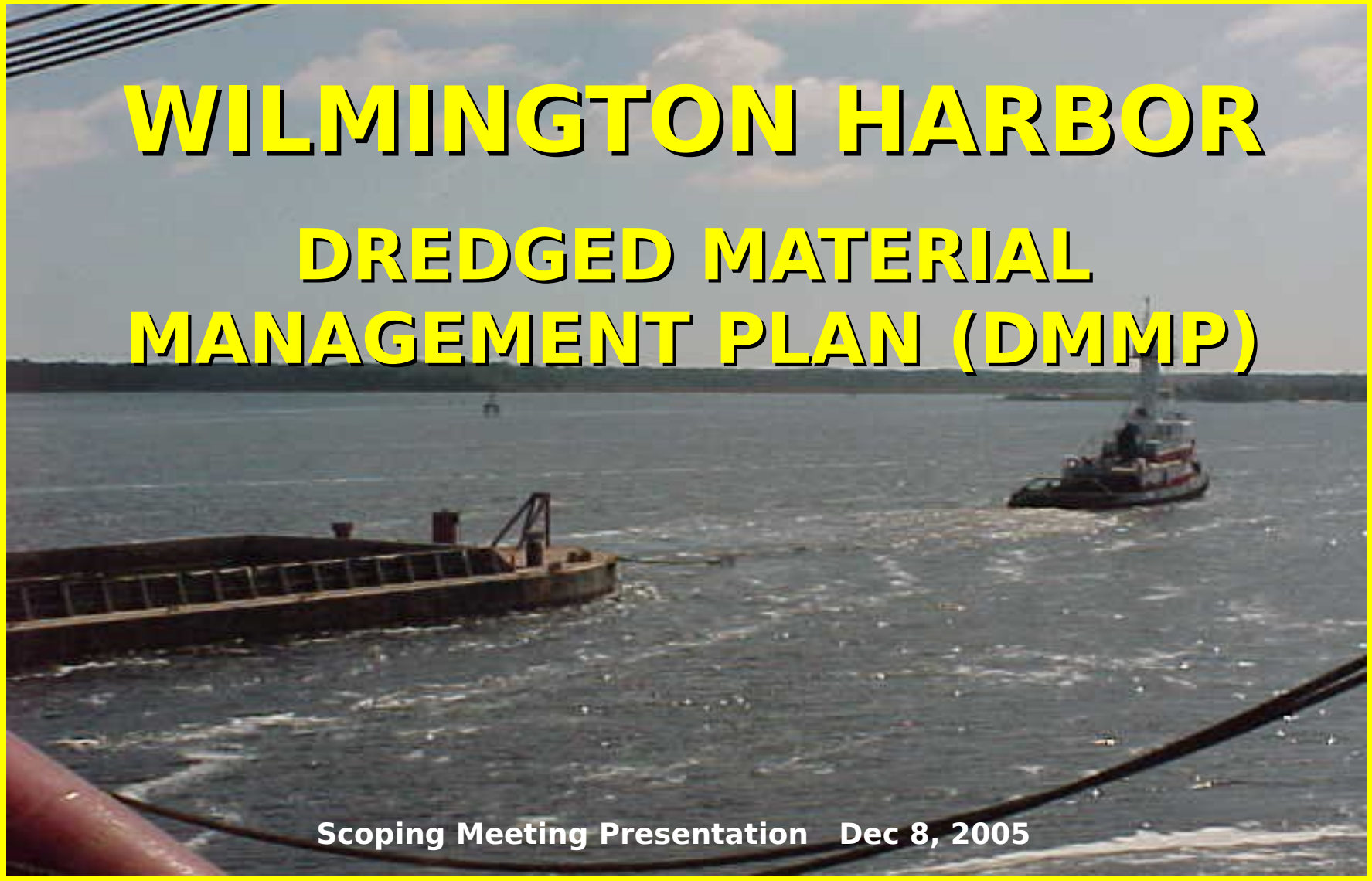
Wilmington District

WILMINGTON HARBOR

DREDGED MATERIAL MANAGEMENT PLAN (DMMP)



Scoping Meeting Presentation Dec 8, 2005

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DMMP Background

HQ Policy – Federal navigation projects must demonstrate sufficient dredged material disposal capacity for 20 years minimum.

Oct 1997 – Phase I - Preliminary Assessment

May 2001 – Phase II – Upper Portion of Wilmington Hbr

Eagle Island Management Plan

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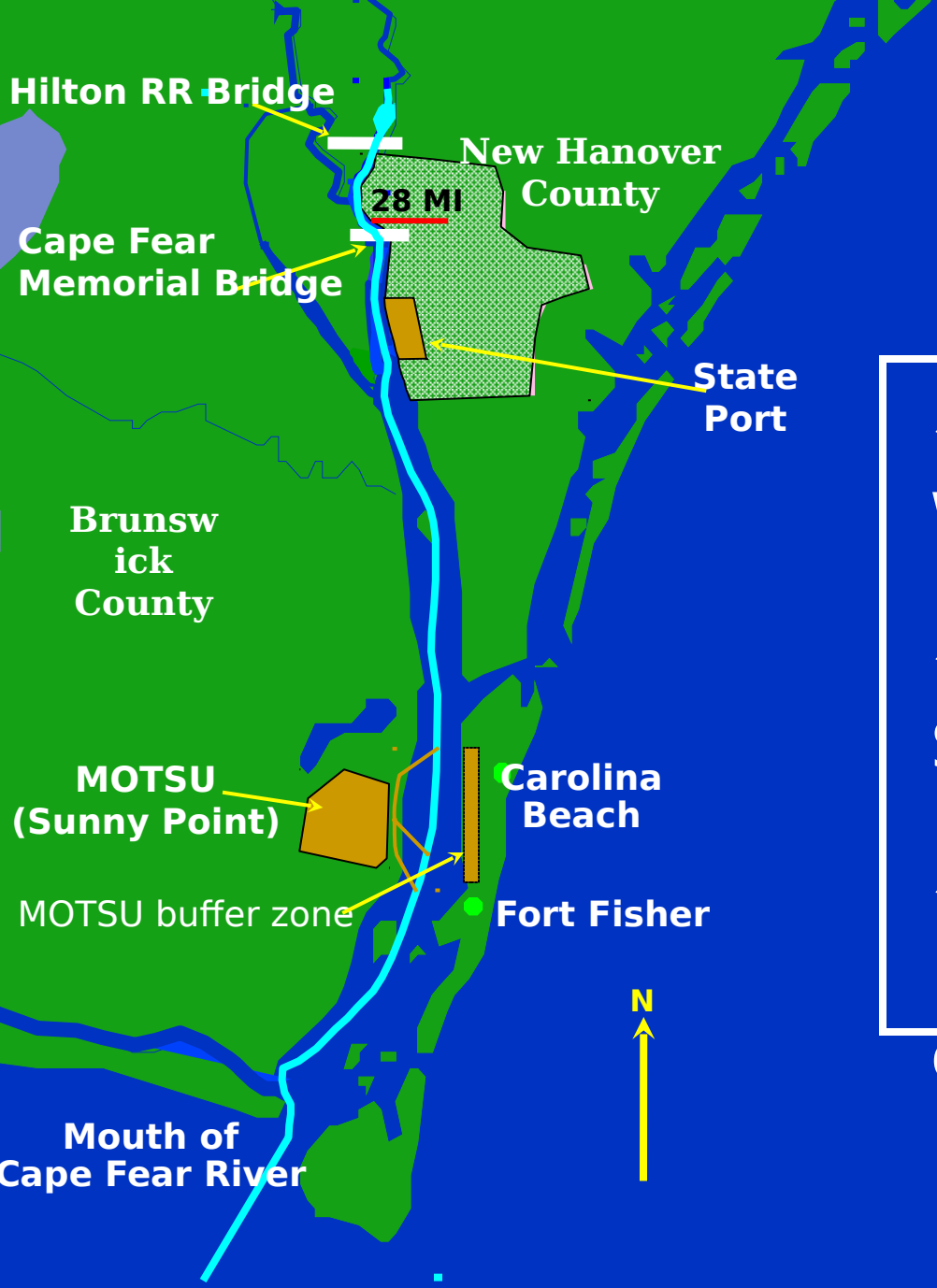
DMMP Process

- **Year 1** – data collection, surveys, mapping, coordination, & evaluations to address major alternatives

- **Years 2 & 3** – data analysis, preliminary design, & NEPA process (anticipated to be EIS)



DMMP Absolutes

- ✓ Address all of Wilmington Harbor
- ✓ Dredging Mgmt Study
- ✓ Mgmt Plan for Eagle Island and other upland disposal sites

WILMINGTON HARBOR DMMP

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Potential Alternatives

- New Confined Disposal Facilities (CDFs) at Eagle Island by expansion north

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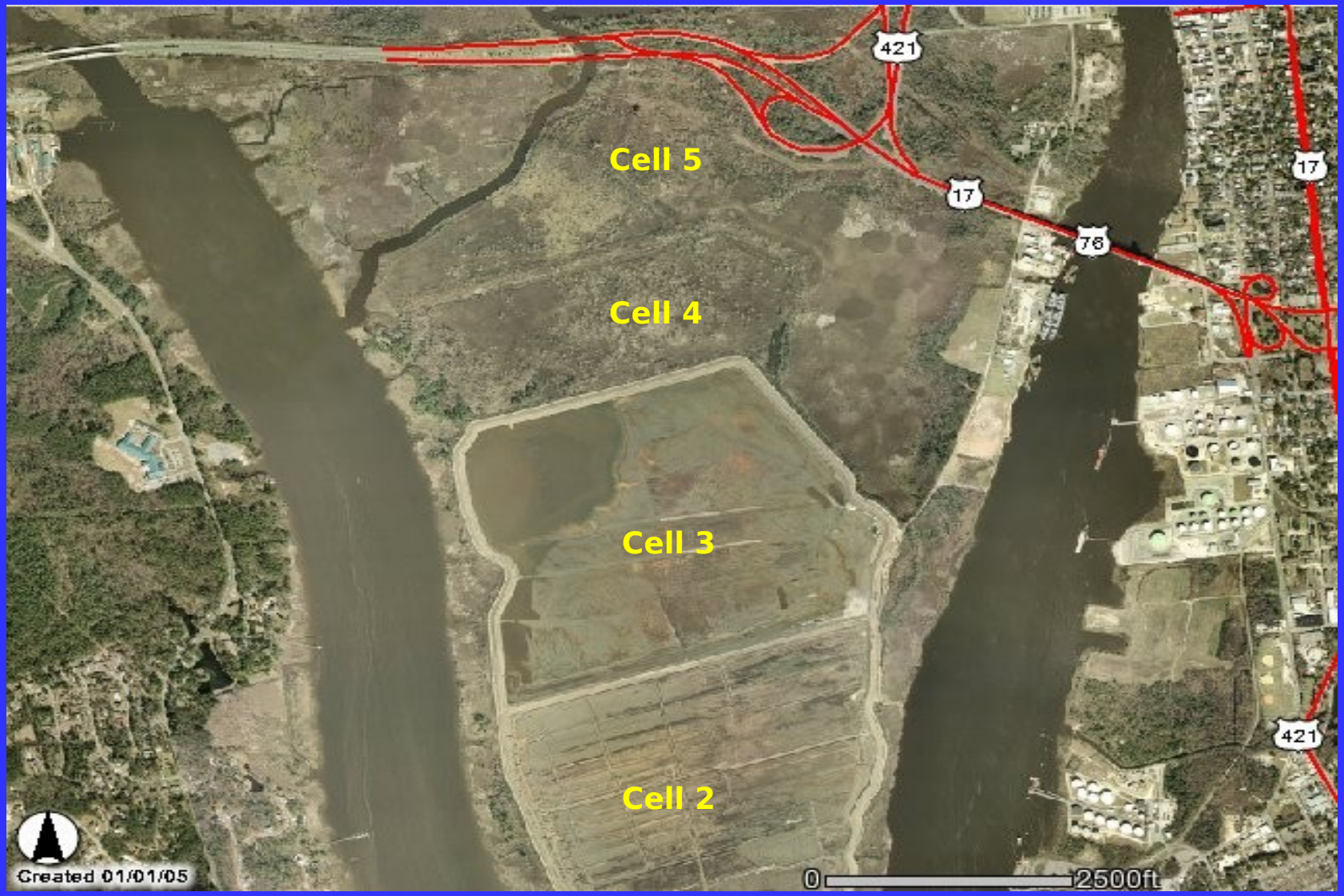
Eagle Island



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Loran Station

Construct CDF at the Coast Guard Loran Station on River Road

Restoration/Rehab of CDFs

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- Dike restoration/rehab at all existing CDFs (river islands)
- Restore capacity at existing sites by ocean disposal and/or beneficial use
- Islands 8 & 10

1) Restore original footprint on channel side
2) Create ecosystem restoration feature (rock sill)

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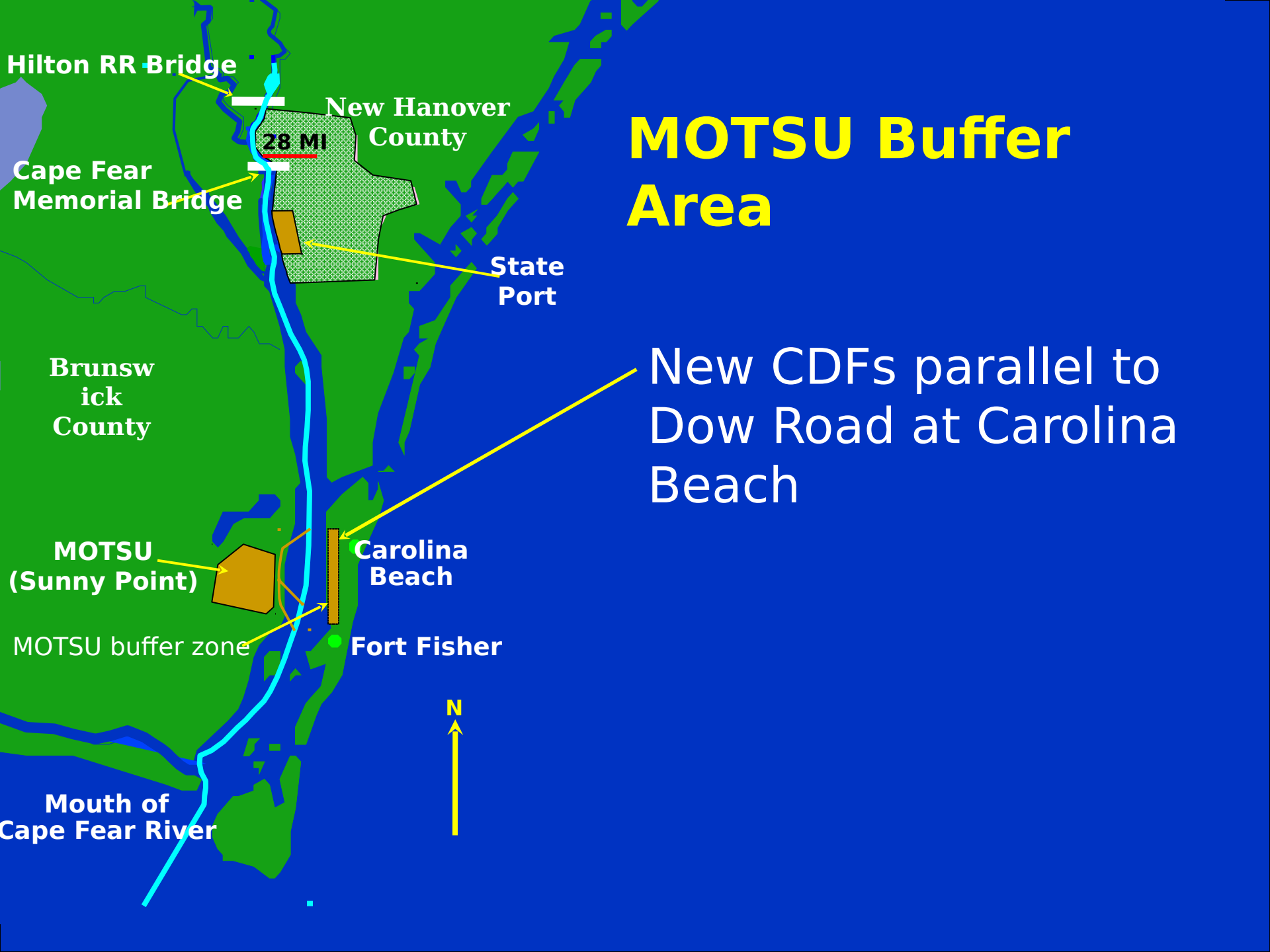
Mid-Harbor Open Water Site

- Open water disposal site near Snows Cut (100-200 acr
- Could be done in conjunction with MOTSU proposed si



MOTSU Buffer Area

New CDFs parallel to Dow Road at Carolina Beach

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MOTSU buffer

1) Eagle-Island type CDFs w/ multiple cells

2) Pump sand in buffer area to beach prior to building CDFs

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Sand Recycling

- Begin systematic sand recycling at Islands 3 & 4 (Snows Marsh)

- Create borrow hole in the Reaves Point to Snows Marsh Channels (sand to depths of ~55')

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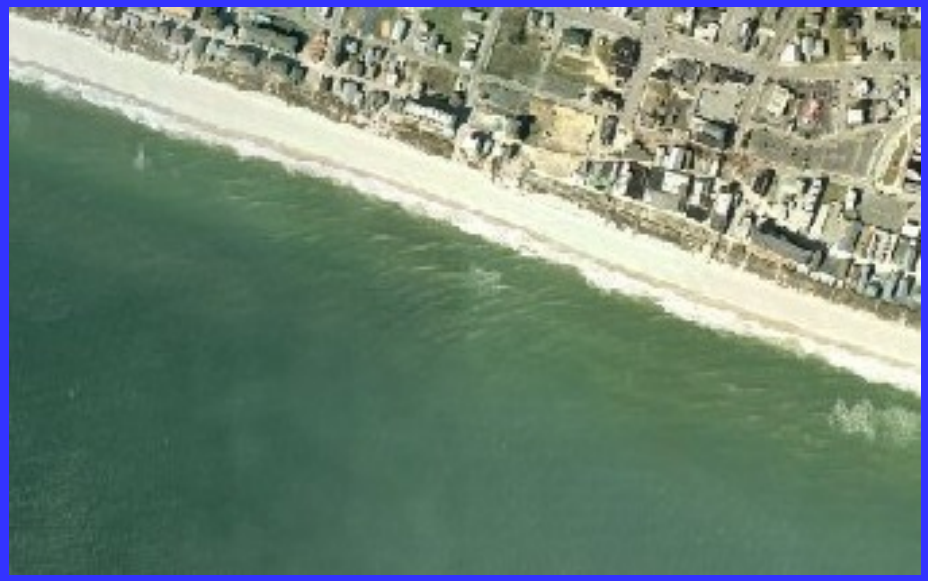
Littoral Zone Disposal

- Establish a littoral zone disposal site for sand recyclin

1. Site in water depths 30’-40’
2. For small quantities of sand not designated for Bald H or Caswell Beaches (Sand Mgmt Plan)

- Could be added to the Sand Mgmt Plan



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Overflow Study

The effects of normal overflow process on silt/clay content

Sediment w/ **20%** silt → Sediment w/**10%** silt?

QUESTIONS?